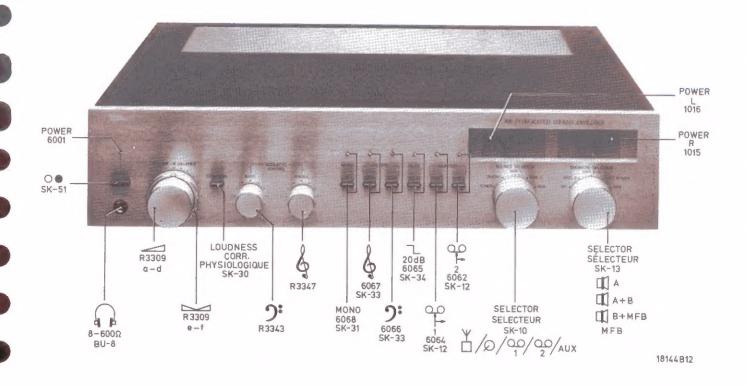


Service Manual

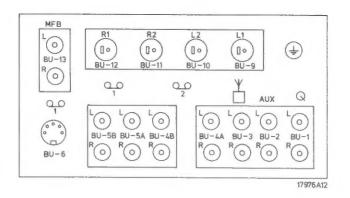


DocumentationTechnique Servicio Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Servicio



Subject to modification 4822 725 13285

Printed in The Netherlands



BU-1 2,5 mV $(47 k\Omega)$ \bigcirc 1,4 \bigcirc 0,25 mV/k Ω (220 k Ω) **BU-6** BU-2 150 mV $(100 k\Omega)$ 3,5 € 150 mV $(100 k\Omega)$ BU-3 150 mV $(100 k\Omega)$ **BU-8** 350 mV (8Ω) 2,5 V $(1 k\Omega)$ BU-4A 150 mV $(100 k\Omega)$ 口 **BU-9** L1 O 60 W (8Ω) BU-4B 150 mV $(2,5 k\Omega)$ **BU-10** BU-5A 150 mV $(2,5 k\Omega)$ **BU-11** R2 O+ BU-5B 150 mV $(100 k\Omega)$ 60 W **BU-12** 口 (8Ω)

GB

For more detailed technical specifications please consult commercial documentation.

F

Pour l'obtention de données techniques plus détaillées veuillez consultez la documentation commerciale.

(I)

In modo da ottenere dati tecnici piu particolareggiati, vi preghiamo di riferirvi alla documentazione commerciale. NL

Voor meer uitgebreide technische specificaties gelieve de commerciele dokumentatie te raadplegen.

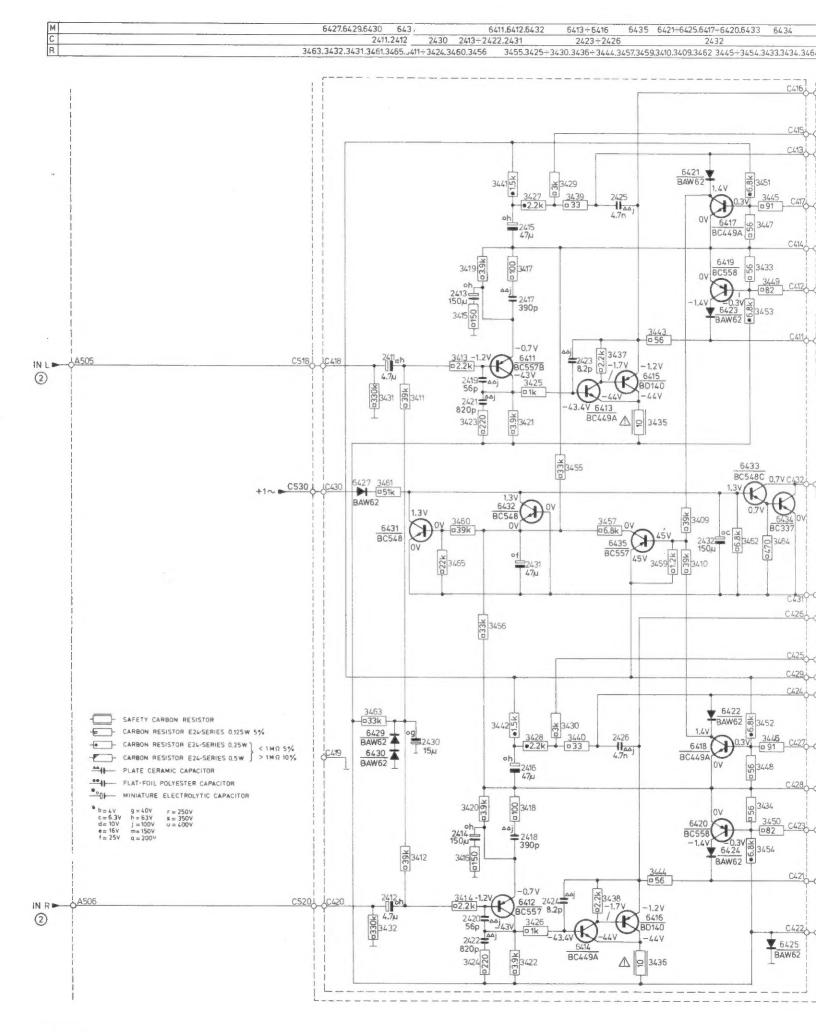
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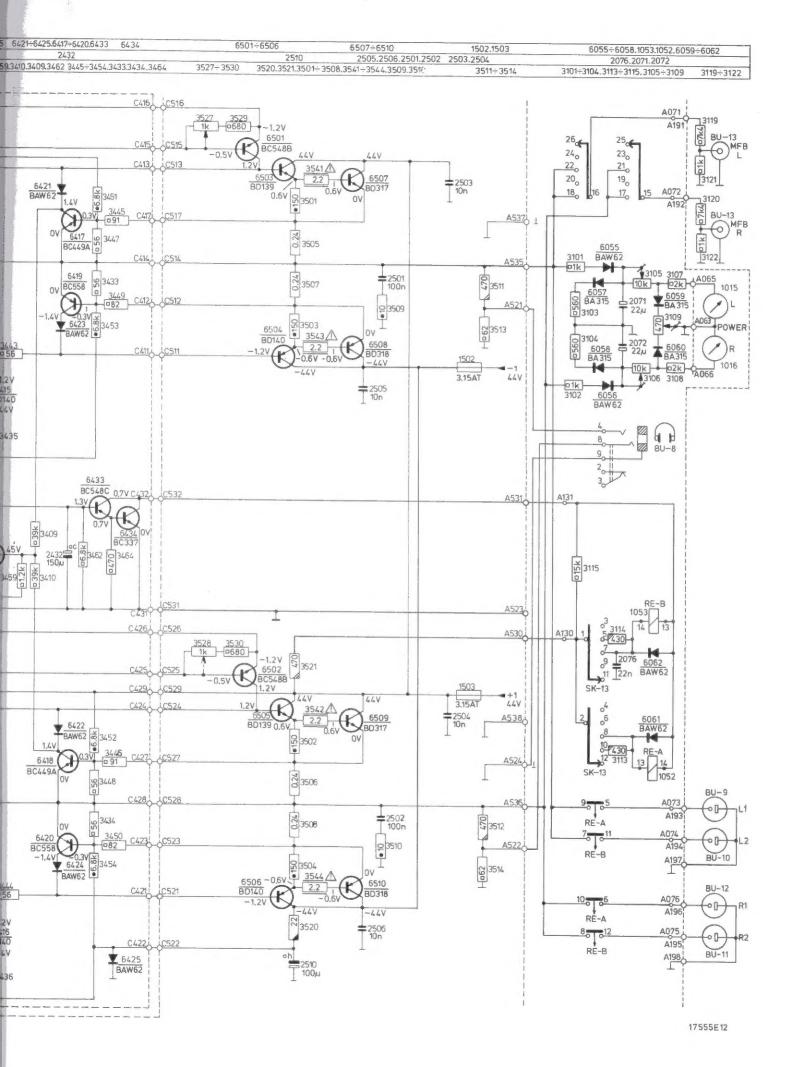
Für eine mehr detaillierte technische Spezifikation verweisen wir auf die kommerzielle Dokumentation.

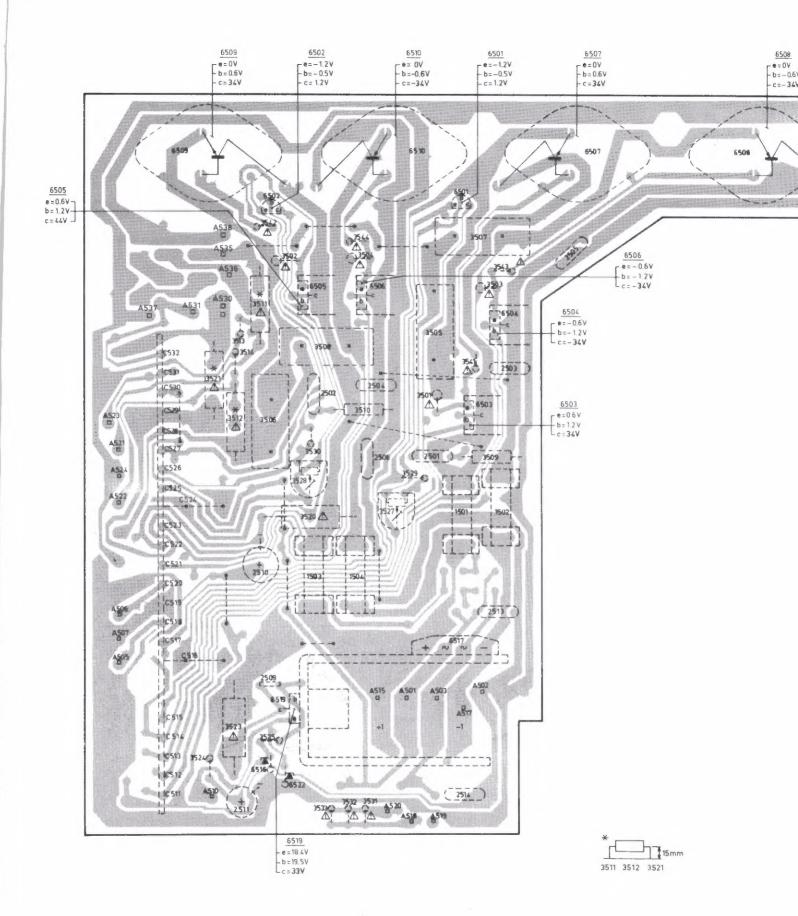
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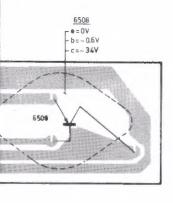
För mera detaljerade tekniska data se kommersiel dokumentation.

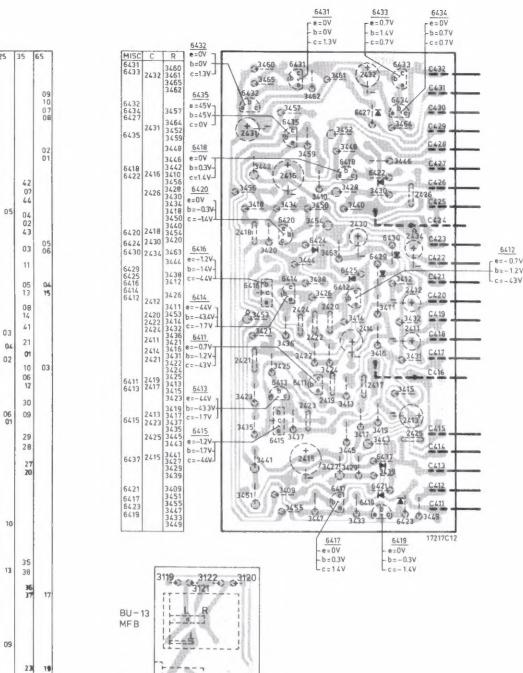
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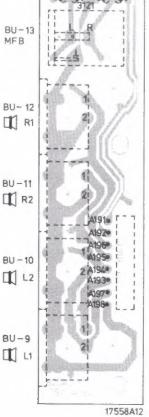
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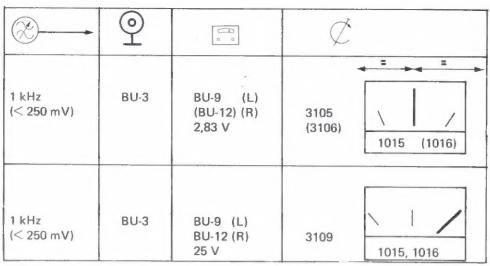
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11

18 24

16

22



6412 e=-0.7V b=-1.2V c=-43V

(GB)

Adjustment output amplifier

Direct current adjustment — Left (Right). With the aid of R3527 (3523) adjust the quiescent current through the output transistors to 50 mA \pm 5 % . To be measured with a non-earthed mV-meter connected across the resistors 3505, 3507 (3506, 3508). The deflection shall then be 24 mV \pm 5 % .

Inspection DC protection

- Connect a resistor of 270 k Ω between the negative pole of C2411 and point +1 of the power supply. The relay shall then be released.
- Connect a resistor of 220 $k\Omega$ between the negative pole of C2414 and point -1 of the power supply. The relay shall then be released.



Réglage de l'amplificateur de sortie

Ajustage courant continu — gauche (droit). Par action sur R3527 (3523) régler le courant de repos à travers les transistors de sortie pour avoir 50 mA \pm 5 % . A mesurer à l'aide d'un mV-mètre isolé de la terre, connecté aux bornes des résistances 3505, 3507 (3506, 3508).

La déviation doit être alors de 24 mV ± 5 %.

Contrôle de la protection contre le courant continu

- Connecter une résistance de 270 kΩ entre le pôle négatif de C2411 et le point +1 de l'alimentation, Ceci fait, le relais doit se décoller.
- Connecter une résistance de 220 k Ω entre le pôle négatif de C2412 et le point -1 de l'alimentation. Ceci fait, le relais doit se décoller.



Regolazione dell'amplificatore d'uscita

Regolazione della corrente di riposo canali sinistro (destro). Per mezzo di R3527 (3523) regolare la corrente di riposo attraverso i transistor d'uscita a 50 mA \pm 5 % . Questa misura deve essere fatta con il mVoltmetro, senza il collegamento alla presa di terra, ai capi delle resistenze 3505, 3507 (3506, 3508). La variazione può quindi essere di 24 mV \pm 5 % .

Controllo del circuito di protezione in DC

- Collegare una resistenza di 270 k Ω tra il polo negativo di C2411 e il punto +1 dell'alimentazione. il relè sarà quindi sganciato.
- Collegare una resistenza di 220 k Ω tra il polo negativo di C2412 e il punto -1 dell'alimentazione. Il relè sarà quindi sganciato.



Afregelen eindversterker

Gelijkstroominstelling - L(R).

De ruststroom door de eindtransistoren moet ingesteld worden met R3527 (3523) op 50 mA \pm 5 % te meten met een niet geaarde mV-meter aangesloten over de weerstanden 3505, 3507 (3506, 3508). De uitslag moet dan 24 mV \pm 5 % zijn.

Controle DC beveiliging

- Sluit een weerstand van 270 k Ω aan tussen de (min pool) van C2411 en de +1 voeding. Het relais moet dan afvallen.
- Sluit een weerstand van 220 k Ω aan tussen de van C2412 en de —1 voeding. Het relais moet dan afvallen,



Abgleich des Endverstärkers

Gleichstromeinstellung — L(R). Der Ruhestrom durch die Endtransistoren soll mit R3527 (3523) auf 50 mA \pm 5 % eingestellt werden; zu messen mit einem nicht-geerdeten mV-Meter, über die Widerstände 3505 und 3507 (3506 und 3508) angeschlossen. Der Ausschlag soll dann 24 mV \pm 5 % sein.

Kontrolle der Gleichspannungssicherung

- Einen Widerstand von 270 k Ω zwischen Minusleiter von C2411 und +1-Stromversorgung anschliessen. Das Relais soll dann abfallen.
- Einen Widerstand von 220 k Ω zwischen Minusleiter von C2412 und -1-Stromversorgung anschliessen, Das Relais soll dann abfallen,



Inställning av slutsteg

Ställ in viloströmmen för vänster (höger) kanal med hjälp av R3527 (3523) så att den blir 50 mA \pm 5 % genom sluttransistorerna. Mät med en ickejordad mV-meter över resistorerna 3505, 3507 (3506, 3508). Spänningen skall vara 24 mV \pm 5 %.

Kontroll av DC-skydd

- Anslut en resistor på 270 k Ω mellan den negativa polen på C2411 och +1 på nätspänningsaggregatet. Härvid skall reläet lösa ut.
- Anslut en resistor på 220 k Ω mellan den negativa polen på C2412 och -1 på nätspänningsaggregatet. Härvid skall reläet lösa ut.

-TS-					
6051-6054 6301,6302 6303,6304 6305,6306 6307,6308	BC559B BC559 BC548B BC548 BC558	4822 130 44358 4822 130 40963 4822 130 40937 4822 130 40938 4822 130 40941	3009 3337,3338 3339,3340 3343,3347 3435,3436	$2\times100+22\mbox{K}$ Metal res. $330\mbox{K}-2\%$ Metal res. $47\mbox{K}-2\%$ $2\times47\mbox{K}$ Safety $10~\Omega$	4822 102 10145 4822 116 51207 5322 116 54671 4822 102 30313 4822 111 30405
6411,6412 6413,14,17,18 6415,6416 6419,6420 6431,6432	BC557B BC449A BD140 BC558 BC548	4822 130 44568 4822 130 41341 4822 130 40824 4822 130 40941 4822 130 40938	3443,3444 3501-3504 3505-3508 3511-3512 3521	Safety 56 Ω Safety 150 Ω W.W3W-0.24 Ω W.W4W- 470 Ω Safety 130 Ω	4822 111 30029 4822 111 30156 4822 115 40216 4822 110 43098 4822 111 50405
6433 6434 6435 6501-6502 6403-6506	BC548C BC337 BC557 BC548B BD139/140	4822 130 44196 4822 130 40855 4822 130 44256 4822 130 40937 4822 130 40849	3523 3527-3528 3532-3533 3541-3544	Safety 22E 1K Safety 1 Ω Safety 5.6 Ω	4822 111 50346 4822 100 10037 4822 111 30215 4822 111 30435
6507,6509 6508,6510	BD317 BD318	4822 130 41338 4822 130 41339	-C-	⊣⊢	
-D-	BD677	5322 209 85451	2001-2002 2071,2072 2076 2321,2311 2335,2323	10,000 uF - 50 V 22 uF - 40 V 22 nF 82 nF 10 nF	4822 124 70319 4822 124 40223 4822 122 30103 4822 121 41158 4822 121 41134
6001 6055,6056		4822 130 31137	2327,2338	47 nF	4822 121 40239
6061,6062 6057-6060 6063-6068 6421-6430	BAW62 BA315 GL-2AR-1 BAW62	4822 130 30613 4822 130 30843 4822 130 31137 4822 130 30613	2419-2420 2423-2424 2501-2502 2503-2506 2512	56 pF - 2% 8.2 pF - 2% 100 n - 100 V 250 V - 47 n 100 n - 250 V	4822 122 31074 4822 122 31052 4822 121 40334 4822 121 40239 4822 121 40518
6515 6516	BAW62 BZX79/C20	4822 130 30613 5322 130 34499	2513-2514	470 n - 100 V	4822 121 40438
6517,6518 6522	BY225/200 BZX79/C22	4822 130 50312 4822 130 34441	-Miscellaneous-		
			1010-1011 1015	6,3 V - 250 mA	4822 134 40007 4822 347 10244
5001		4822 146 80085	1016 1051		4822 347 10245 4822 218 10124
-R-			1054,1055 1502-1503 1052-1053	6,3 AT 4 AT Relay	4822 253 30031 4822 253 30038 4822 280 70166
3105,3106 3109 3110 3116,3117 3301	10K 470 Ω Safety 56 Ω Safety 56 Ω Safety 56 Ω	4822 100 10035 4822 100 10038 4822 111 30412 4822 111 30471 4822 111 30412			



Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.



Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.



Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.



Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.



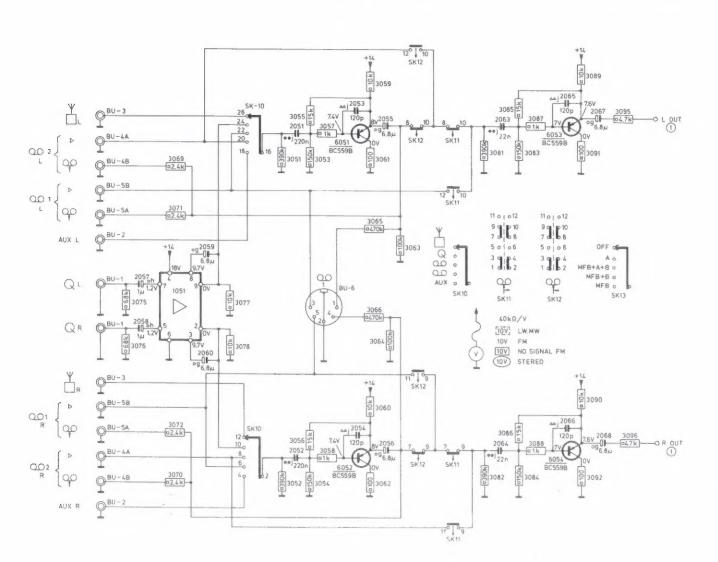
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

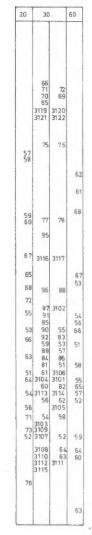


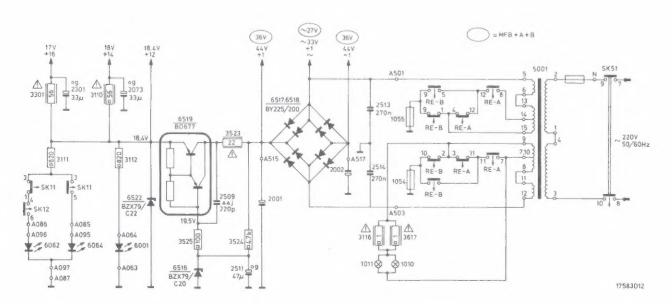
Säkerhetsbestämmelserna kräver att varje reparation skall utföras korrekt med hänsyn till ursprunglig placering av komponenter, ledningar etc. och med användning av föreskrivna reservdelar. SK12 0 6 0 A086

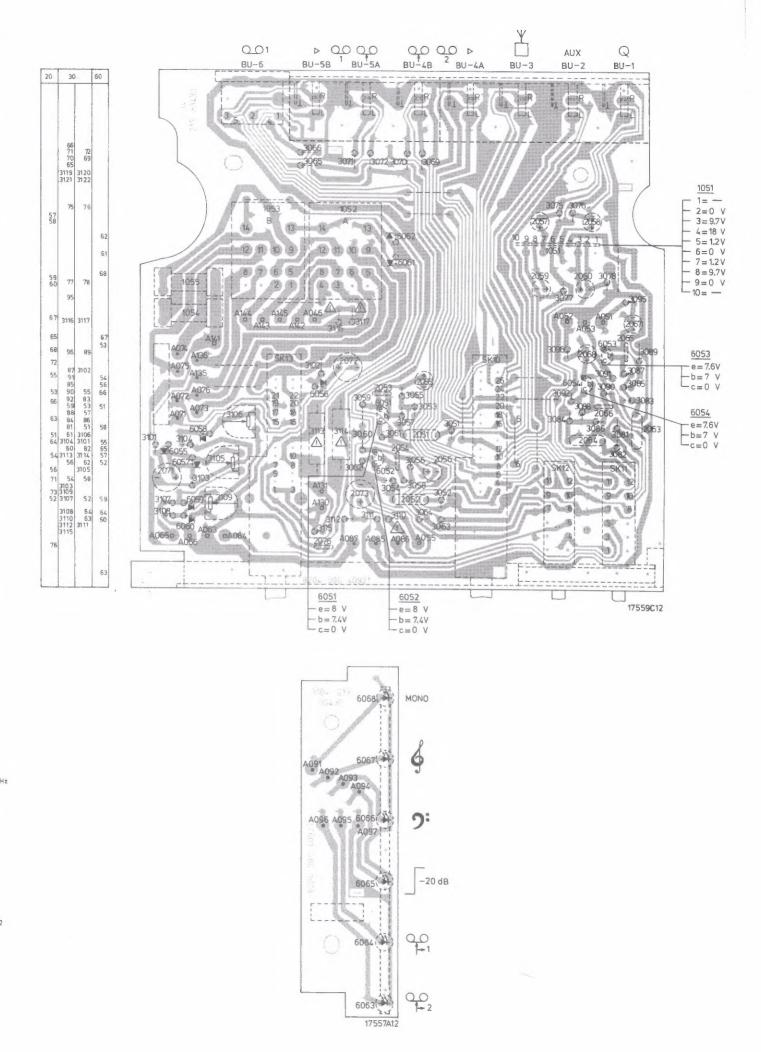
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MISC.	6062	6064.6522.1051.6001	6516.6519	6517.6051,6052	.6518 10	11	1055,1054,1010		6053.6054 5001	MISC.
С	2	301,2057,2058 2073		509,2511,2051,2052,2001,2053,2	054,2002,2055.	2056,251	13.2514	2063.2064	2065,2066,2067,2068	C
R	3301, 3111, 301	75,3076,3110,30693072,31	12.3077.3078.35	5233524,30513058	3059-3066	3116	3617	308130	30893092,3095,3096	R







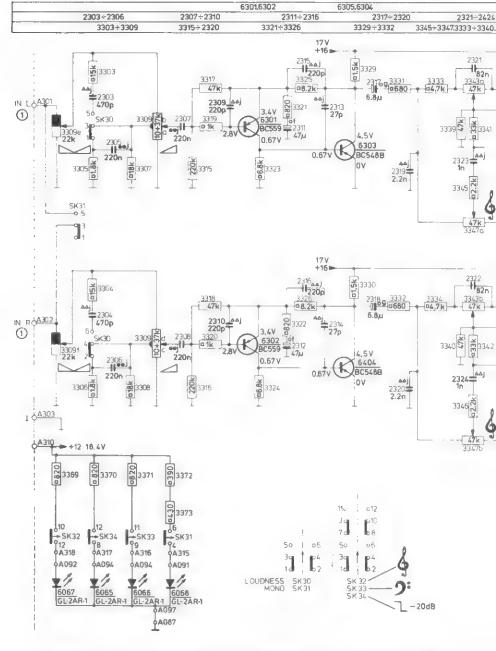


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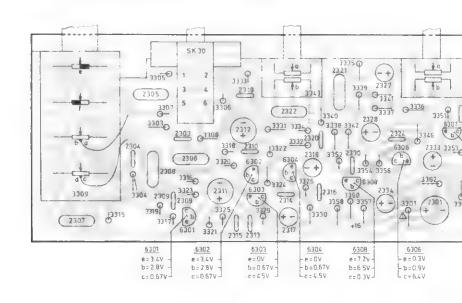
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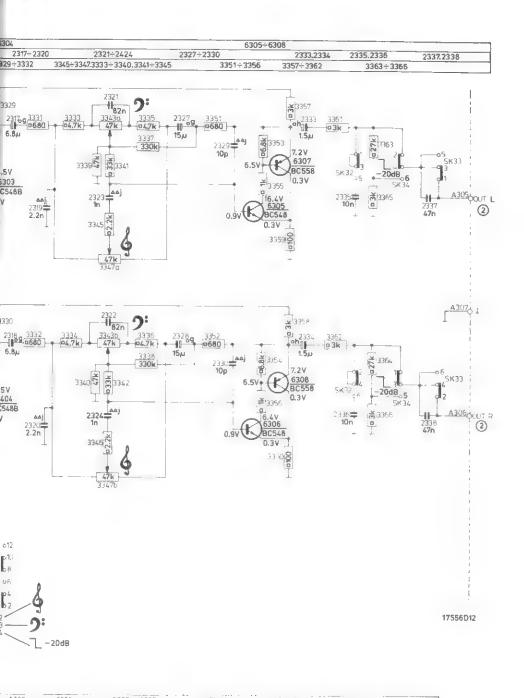
220V 50/60Hz

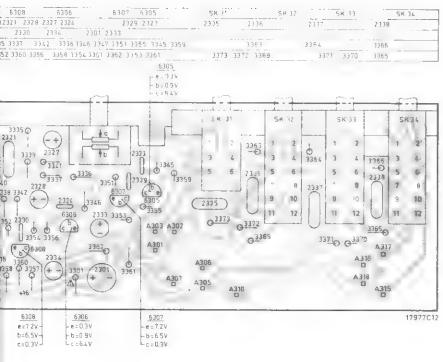
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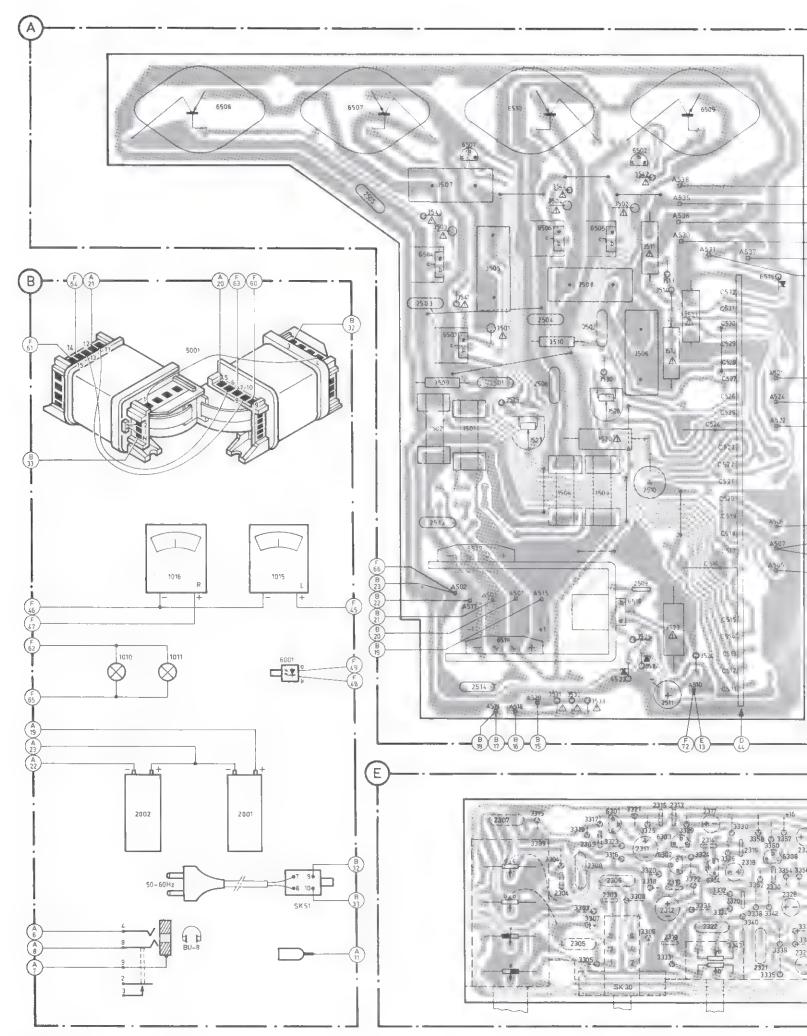


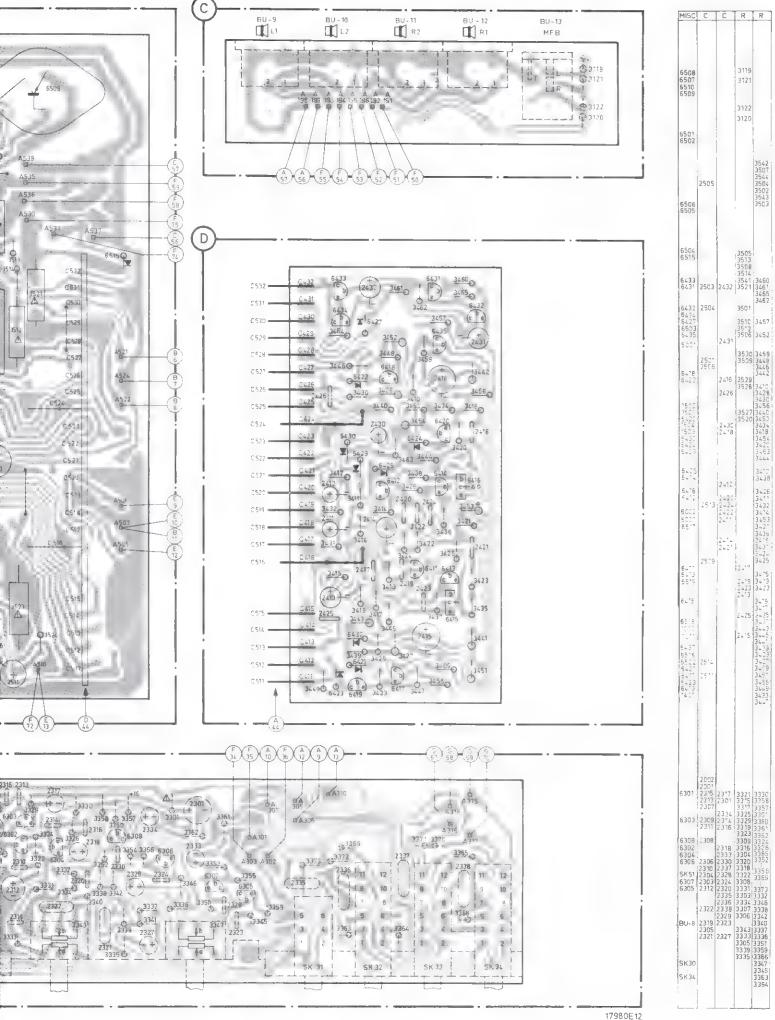
C 2305 2303 2317 2319 2310 2322 2320,2321 2328 2327 2324 C 2307 2304 2308 2309 2306 2311 2315 2313 2314 2316 2318 2330 2334			
C 2307 2304 2308 2309 2306 2311 2315 2313 2314 2316 2318 2330 2334			
	2301	301 23	233
P 3309 3307 3305 3308 3306 3331 3334 3343 3335 3337 3342 3336 3	346 334	3347	47 33

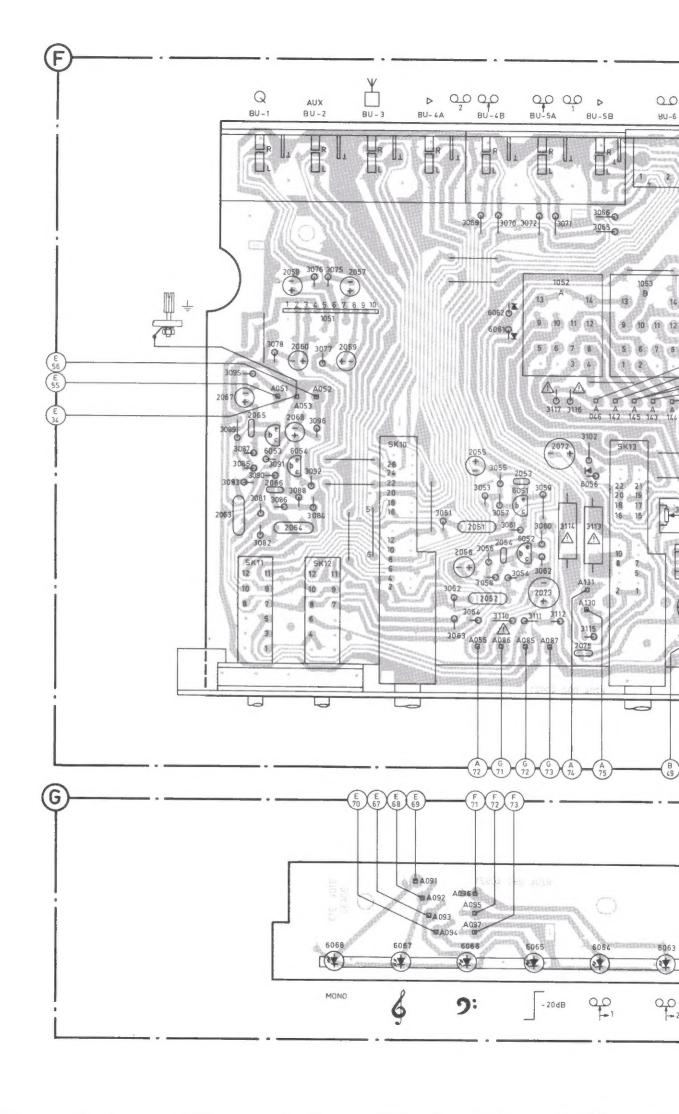


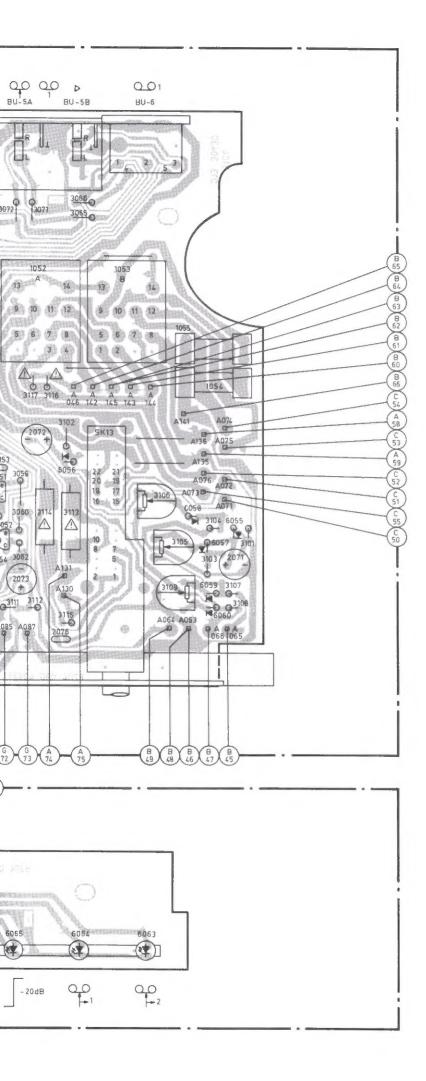












IISC	С	R	
3U-1			
3U-6			
		3069 3070 3065	3072 3071 3066
		3003	3000
052 053	2058 2057	3075	3076
5062 1051			
1051 5061			
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1054	2067 2065	3117	3116
5053	2068	3089	3102
5K10 5K13 6054	2072	3087	200-
	2053	3085 3055 3090	3091
6056 6051	2066	3088 3059	3083 3053 3081
5050	2063	3057	3084
6058 6055 6052	2064 2051	3151 3060 3104 3082	3114
6057	2056	3082 3056 3105	3104 3101 3062
SK11	2071	3054	3101 3103
6059	2073 2052	3109	3107
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